MeitY - Electronics & ICT Academy Sponsored

Joint Online Summer Course on

“Data Science for All"

27th July – 07th August 2020

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic as well as specialized training programmes in niche areas of electronics and ICT for the development required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

**Target Beneficiaries**
Interested Faculty of engineering/technical institutions are eligible to attend these Summer courses.
Non-faculty participants are also invited to attend the aforesaid programmes to upgrade their skills.

**Availability of seats at each offering Academy**
Participants will be selected based on first-cum-first-serve basis by organizing academy. Selected participants will be communicated through e-mail / notified in E&ICT Academy websites.

**Course duration**
The contact hours are to be spread over 10 days, implying NOT more than 3½hours per day.

**PSG College of Technology hosts this online summer course as a Remote Centre.**

**Convener**
Dr. K. Umamaheswari, Professor & Head - IT Department, PSG College of Technology

**Coordinators**
Dr. N. Hema Priya, Assistant Professor (SG)
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**Proctoring Coordinator**
Dr. P. Saravanan, Associate Professor, Department of ECE, PSG College of Technology
Speakers
Prof. DVLN Somayajulu, IIITDM Kurnool,
Prof. RBV Subramnayam NIT Warangal,
Dr. Atul Gupta, IIITDM Jabalpur,
Dr. T. Ramakrishnudu, NIT Warangal,
Dr. Nagesh Bhattu, NIT Andhra Pradesh,
Dr. Anand Kumar, NITK Surathkal

COURSE CONTENTS
Mathematical Foundations of Data Sciences

Data Processing
Dimensionality Reduction, Principal Component Analysis.

Machine Learning basics
Regression, Classification—Decision Trees, Naïve Bayesian Classifier, Clustering, Handling Large Datasets: MapReduce.

R for Data Science
Data Wrangling, Data Visualization, Programming.

Python for Data Science
Normal Python, NumPy, Pandas, Matplotlib.

Deep Learning
Scikit, Keras and TensorFlow: Practice on ML topics.

Key Features
- Online / Live lectures sessions by subject experts
- Online lab and training sessions.

Certification Fee
Faculty/Research Scholar = Rs. 500/- (SC/ST = Rs. 250/-)
Others (Except Faculty/Research Scholar) = Rs. 1000/- (SC/ST = Rs. 500/-)

No Fee for No Certificate

Online payment details
Bank Name: Allahabad Bank
Account Name: NIT Patna
Account No.: 50380476798
IFSC Code: ALLA0212286

Link for Registration
https://forms.gle/N3WZztJ41E9qHUo8